

Janet Callahan

List of Publications by Year in descending order

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81
papers

847
citations

687363

13
h-index

526287

27
g-index

87
all docs

87
docs citations

87
times ranked

732
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancing STEM Majorsâ€™ College Trigonometry Learning through Collaborative Mobile Apps Coding. TechTrends, 2021, 65, 26-37.	2.3	2
2	Imaging of Aluminum Nanoparticles Embedded in an Amorphous Sapphire Substrate Using Plasmon Energy-loss Electrons in TEM. Microscopy and Microanalysis, 2018, 24, 1716-1717.	0.4	0
3	Testing Our Assumptions. The Journal of College Student Retention: Research and Practice, 2017, 19, 161-175.	1.5	7
4	Objectives and Outcomes Jabberwocky. Jom, 2016, 68, 2021-2023.	1.9	1
5	An Elective Mathematics Readiness Initiative for STEM Students. , 2015, , 26.181.1.		1
6	Evolution of a First-year Engineering Course. , 2015, , 26.700.1.		0
7	The decision, implementation and assessment of a credit-bearing activity class by faculty in Residence: A case study. Work, 2015, 52, 481-489.	1.1	0
8	Living with students: Lessons learned while pursuing tenure, administration, and raising a family. Work, 2015, 52, 497-501.	1.1	0
9	Who Is Doing the Engineering, the Student or the Teacher? The Development and Use of a Rubric to Categorize Level of Design for the Elementary Classroom. Journal of Technology Education, 2015, 26, .	0.8	28
10	Teacher STEM Perception and Preparation: Inquiry-Based STEM Professional Development for Elementary Teachers. Journal of Educational Research, 2013, 106, 157-168.	1.6	204
11	C0113 Impact of direct thrombin and direct F Xa inhibitor anticoagulants on ACL top family fibrinogen assays. Thrombosis Research, 2012, 130, S105-S106.	1.7	0
12	Immuno-SEM characterization of developing bovine cartilage. Materials Science and Engineering C, 2008, 28, 341-346.	7.3	1
13	A Prototype Continuous Flow Polymerase Chain Reaction LTCC Device. Materials Science Forum, 2007, 539-543, 523-528.	0.3	3
14	Mechanical and radiographic properties of a shape memory polymer composite for intracranial aneurysm coils. Materials Science and Engineering C, 2006, 26, 1373-1379.	7.3	87
15	Deposition of Î±-alumina via combustion chemical vapor deposition. Thin Solid Films, 2006, 515, 1905-1911.	1.8	23
16	Nanohardness and fracture toughness of combustion chemical vapor deposition deposited yttria stabilized zirconiaâ€“alumina films. Thin Solid Films, 2005, 483, 211-217.	1.8	14
17	Nanoindentation measurements of combustion CVD Al ₂ O ₃ and YSZ films. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 359, 112-118.	5.6	48
18	The Isothermal Oxidation Response of a Gamma-Titanium Aluminide Alloy. Materials Science Forum, 2003, 426-432, 2437-2442.	0.3	0

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19	Oxidation of Ti ₃ SiC ₂ composites in air. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 1737-1742.	2.2	16
20	Implantation parameters affecting aluminum nano-particle formation in alumina. Journal of Materials Science, 2001, 36, 1963-1973.	3.7	4
21	Synthesis and Characterization of γ -Alumina Films Via Combustion Chemical Vapor Deposition. Materials Research Society Symposia Proceedings, 2000, 616, 241.	0.1	1
22	Combustion chemical vapor deposition of CeO ₂ film. Thin Solid Films, 1999, 347, 25-30.	1.8	26
23	Ion implantation-induced nanoscale particle formation in Al ₂ O ₃ and SiO ₂ via reduction. Acta Materialia, 1999, 47, 1497-1511.	7.9	13
24	Synthesis and characterization of mechanically alloyed and shock-consolidated nanocrystalline NiAl intermetallic. Acta Materialia, 1999, 47, 2567-2579.	7.9	107
25	The combustion chemical vapor deposition of high temperature materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1999, 267, 7-18.	5.6	29
26	Title is missing!. Oxidation of Metals, 1998, 50, 123-138.	2.1	5
27	High-spatial resolution compositionally-sensitive imaging of metallic particles using plasmon energy-loss electrons in TEM. Micron, 1998, 29, 191-199.	2.2	8
28	Ion implantation induced formation of aluminum nanoparticles in alumina via reduction. Surface and Coatings Technology, 1998, 103-104, 409-414.	4.8	6
29	Alumina Coatings Applied via Combustion Chemical Vapor Deposition and Their Effects on the Oxidation of a Ni-Base Chromia Former. Journal of the Electrochemical Society, 1998, 145, 3986-3994.	2.9	12
30	Synthesis and Characterization of Nanosized NiAl Particles. Materials Research Society Symposia Proceedings, 1998, 520, 205.	0.1	0
31	The Effects of Nanostructure on the Strengthening of NiAl. Materials Research Society Symposia Proceedings, 1998, 552, 1.	0.1	0
32	Title is missing!. Journal of Materials Science, 1997, 32, 3393-3399.	3.7	8
33	Silica thin films applied to Ni-20Cr alloy via combustion chemical vapor deposition. Surface and Coatings Technology, 1997, 94-95, 13-20.	4.8	13
34	Combustion CVD of magnesium spinel and nickel spinel. Surface and Coatings Technology, 1997, 94-95, 137-143.	4.8	16
35	Improved oxidation resistance of group VB refractory metals by Al ⁺ ion implantation. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1996, 27, 491-500.	2.1	5
36	Nanocrystal Formation Via Yttrium Ion Implantation into Sapphire. Materials Research Society Symposia Proceedings, 1995, 396, 403.	0.1	6

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37	Thermal Aging of Combustion Chemical Vapor Deposited Oxide Coatings. Materials and Manufacturing Processes, 1995, 10, 1007-1020.	4.7	6
38	Electron diffraction measurements on chromium oxide. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1993, 67, 849-863.	0.6	7
39	The effects of yttrium ion implantation on the oxidation of nickel-chromium alloys. I. The microstructures of yttrium implanted nickel-chromium alloys. Oxidation of Metals, 1992, 38, 125-138.	2.1	21
40	The effects of yttrium ion implantation on the oxidation of nickel-chromium alloys. II. Oxidation of yttrium implanted Ni-20Cr. Oxidation of Metals, 1992, 38, 139-161.	2.1	22
41	Thin layers near surfaces by ion implantation. Materials Characterization, 1992, 28, 89-101.	4.4	2
42	Improving tantalum's oxidation resistance by Al+ ion implantation. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1989, 20, 2101-2108.	1.4	3
43	The effect of ion-implanted yttrium on the oxidation of nickel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1989, 116, 119-127.	5.6	12
44	Support Model for Transfer Students Utilizing the STEM Scholarship Program. , 0, , .		6
45	Listening and Negotiation. , 0, , .		1
46	Teaching Inquiry Based Stem In The Elementary Grades Using Manipulatives: A Systemic Solution Report. , 0, , .		5
47	Connecting Science with Engineering: Using Inquiry and Design in a Teacher Professional Development Course. , 0, , .		4
48	Creating a STEM Identity: Investment with Return. , 0, , .		2
49	Enhancing Precalculus Curricula With E Learning: Implementation And Assessment. , 0, , .		2
50	Improving Students' Learning In Precalculus With E Learning Activities And Through Analyses Of Students' Learning Styles And Motivational Characteristics. , 0, , .		1
51	Coherent Calculus Course Design: Creating Faculty Buy-in for Student Success. , 0, , .		5
52	Calculus Reform - Increasing STEM Retention and Post-Requisite Course Success While Closing the Retention Gap for Women and Underrepresented Minority Students. , 0, , .		0
53	Listening and Negotiation II. , 0, , .		0
54	Ten Years Later: Where are they Now?. , 0, , .		0

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55	Longitudinal Success of Calculus I Reform. , 0, , .		1
56	Where do We Go from Here? Conversations with K-6 Principals Following Three Years of Engineering Education Professional Development for Their Faculty. , 0, , .		2
57	A Systemic Solution: Elementary Teacher Preparation In Stem Expertise And Engineering Awareness. , 0, , .		7
58	Work in Progress: Institutional Context and the Implementation of the Redshirt in Engineering Model at Six Universities. , 0, , .		1
59	What Women Want: Female Friendly Faculty Recruitment. , 0, , .		2
60	An Innovative Method To Realistically Track Engineering Student Retention And Academic Progress. , 0, , .		0
61	Establishing Doctoral Programs in Electrical Engineering, Materials Science and Engineering, and Computing in an Emerging Research Institution: Lessons Learned and Best Practices. , 0, , .		0
62	Integrated Pre Freshman Engineering And Precalculus Mathematics. , 0, , .		4
63	Managing Dual Academic Careers. , 0, , .		0
64	The Implementation Of An Online Mathematics Placement Exam And Its Effects On Student Success In Precalculus And Calculus. , 0, , .		6
65	Using Online Assessment and Practice to Achieve Better Retention and Placement in Precalculus and Calculus. , 0, , .		0
66	Revealing Student Misconceptions and Instructor Blind Spots with Muddiest Point Formative Feedback. , 0, , .		1
67	The Impact of Volunteering at a Girls Outreach Activity on Community Formation. , 0, , .		0
68	Developing And Assessing Engineering Based Modules For A Freshman Engineering Class. , 0, , .		0
69	Board 105: The Redshirt in Engineering Consortium: Progress and Early Insights. , 0, , .		0
70	Where The Girls Are: Applying An Integrated Marketing Approach To Attract Girls Into Engineering Programs. , 0, , .		1
71	Improving Campus Climate For Faculty From Underrepresented Groups. , 0, , .		0
72	The Party's Over: Sustaining Support Programs When The Funding Is Done. , 0, , .		0

#	ARTICLE	IF	CITATIONS
73	Effects Of Service Learning Implemented In An Introductory Engineering Course On Student Attitudes And Abilities In The Context Of Abet Outcomes. , 0, , .		0
74	Benefits Of A Tutorial Mathematics Program For Engineering Students Enrolled In Precalculus: A Template For Assessment. , 0, , .		0
75	Both Sides of the Equation: Learner and Teacher. , 0, , .		2
76	Panel discussion on the History of the Women in Engineering Division: Reflections from Past Chairs of the Division. , 0, , .		0
77	The Idaho Science Talent Expansion Program: Freshman Orientation for STEM Majors. , 0, , .		3
78	Successes Of An Engineering Residential College Program Within An Emerging Residential Culture. , 0, , .		0
79	The 2015, 2016, and 2017 Best Diversity Papers: Summary and Perspective. , 0, , .		0
80	The Crux: Promoting Success in Calculus II. , 0, , .		0
81	Promoting STEM Faculty Membersâ€™ Reflection on their Learning Perceptions and Teaching Practices. , 0, , .		3